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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/987,168	11/13/2001	Gowri Makineni	58392.000019	6590

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EXAMINER

JUNG, DAVID YIUK

ART UNIT PAPER NUMBER

2134

DATE MAILED: 05/23/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/987,168

Applicant(s)

MAKINENI ET AL.

Examiner

David Y. Jung

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 01 March 2006.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☐ Claim(s) 1-16 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-16, 19-25, 27-30, 32, 35-37 and 39 is/are rejected.
- 7) ☒ Claim(s) 26, 31, 33, 34 and 38 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

CLAIMS PRESENTED

Claims 1-16, 19-39 are presented.

Response to Arguments

Applicant's arguments with respect to previously rejected claims have been fully considered and are persuasive. The rejections have been withdrawn.

Nevertheless, Applicant's arguments are moot in view of the new ground(s) of rejection.

Allowable Subject Matter

Claims 26, 31, 33, 34, 38 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: The prior art did not teach such particular details of a secure channel in such particular contexts of the other limitations of the claims..

CITED ART

The art made of record and not relied upon is considered pertinent to applicant's disclosure. Among others, <http://java.sun.com/sfaq/chronology.html> shows the exact dates of disclosures of the features of <http://java.sun.com/sfaq>.

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<http://java.sun.com/developer/technicalArticles/Security/applets> gives more details on the features noted in <http://java.sun.com/sfaq>.

CLAIM REJECTIONS

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-16, 19-25, 27-30, 32, 35-37, 39 are rejected under 35 U.S.C. 103(a) as being unpatentable over Malkin (cited in previous Office Action) and Applet (<http://java.sun.com/sfaq>).

"In a computer network arrangement comprising a home network having at least one home network server and a firewall for protecting said home network server, a relay server outside of said home network, and a ... having a permanent IP address within said home network, a method for maintaining secure communications between the home network server and the ... when said ... roams outside of said home network to a new location, said method comprising: establishing a new IP address for the new ... location; sending a registration message to said relay server identifying said new IP address location; authenticating said registration message; encapsulating and transmitting said registration message to said home server; registering said new IP

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address as a care-of-address for said ... at said home server; confining the registration of said new IP address with said; performing network address translation between the ...'s permanent IP address and the ...'s new IP address; tunneling packets addressed for said ... between said home server and said relay server based on the established security association and said address translation for said ...; and decapsulating said packets at said relay sender and forwarding said packets to said ... (columns 2-7, especially column 6, lines 45-67, i.e. encapsulation, tunneling, etc.)."

These passages of Malkin do not teach "client" in the sense of the claim.

Nevertheless, it was well known in the art to have a "client" situation among such service handling for the motivation of providing more control to users (who are given more control by being "client" for servers than by being a more passive receivers of service).

Hence, it would have been obvious to those of ordinary skill in the art at the time of the claimed invention to modify Malkin for the motivation noted in the previous paragraphs so as to teach the claimed invention.

As Applicant has argued, these passages of Malkin do not teach "establishing a security association between said home server and said relay server on behalf of said ..." or "tunneling packets addressed for said ... between said home server and said relay server based on the established security association and said address translation for said ...; and decapsulating said packets at said relay sender and forwarding said packets to said ..."

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These features are taught by <http://java.sun.com/sfaq> which discusses Java applets. Note, in particular, the section 13: "What is the difference between applets loaded over the net and applets loaded via the file system?"; section 14: "What's the applet class loader, and what does it buy me?"; section 15: "What's the applet security manager, and what does it buy me?." These passages teach "establishing a security association between said home server and said relay server on behalf of said ..." because section 13 shows how the loading via the file system establishes the security association and section 15 shows how the applet security manager establishes the security association. Because applets travel through servers, applets naturally travel through relay servers. These passages also teach "tunneling packets addressed for said ... between said home server and said relay server based on the established security association and said address translation for said ...; and decapsulating said packets at said relay sender and forwarding said packets to said ..." This is because Applets tunnel (i.e. are self-contained and move through computers) and decapsulate (i.e., get loaded).

Regarding claim 2 (multiplexer, etc.), such particular features are well known in the art for the purpose of effective broadening of communication.

Regarding claims 3-4 (HTTP handlings), claims 5-6 (UDP handlings), claim 7-8 (gateway handling), such particular features are well known in the art for the purpose of handling information across computers (and indeed are standard).

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Regarding claims 9-16, these claims are analogs of claims 1-8 (e.g., claim 9 being a network analog of claim 1). For the reasons noted in the rejections of claims 1-8, these claims are not patentable.

Regarding claim 19, 20 (multiple messages), such particular features are well known in the art for the purpose of handling information across computers.

Regarding claim 21-25, 27-28, these claims are of analogs of claims 1-20. For the reasons noted in the rejections of claims 1-20, these claims are not patentable.

Regarding claim 29-30, 32, 35-37 these claims are of analogs of claims 1-20. For the reasons noted in the rejections of claims 1-20, these claims are not patentable.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of

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the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Points of Contact

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(571) 273-8300, (for formal communications intended for entry)

Or:

(571) 273-3836 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

Any inquiry concerning this communication or earlier communications from the examiner should be directed to David Jung whose telephone number is (571) 272-3836 or Jacques Louis-Jacques whose telephone number is (571) 272-6962.

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David Jung

Patent Examiner

5/15/06

A handwritten signature in black ink, consisting of a stylized, cursive script that begins with a large loop and ends with a long, sweeping horizontal stroke.